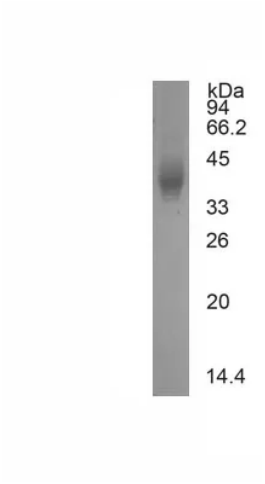
Active Cluster Of Differentiation 42b (CD42b)

Catalog#:PHH12608

概述（Summary）

别称（Alternative Names）	GP1Ba; CD42-B; CD42b-Alpha; GP1-BA; BSS; GP1B; GPIBA; Glycocalicin; Glycoprotein Ib Alpha Polypeptide, Platelet
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ile19-Leu291】
Accession #	P07359
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	31.8 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	GP-Ib, a surface membrane protein of platelets, participates in the formation of platelet plugs by binding to the A1 domain of vWF, which is already bound to the subendothelium.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

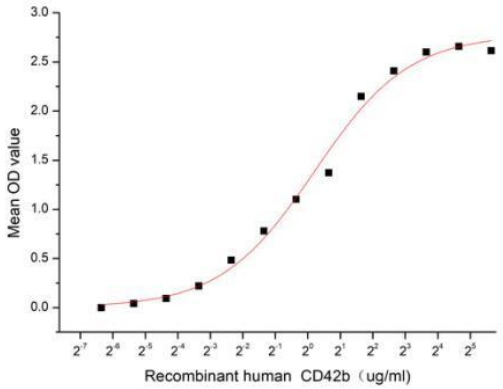


Figure 1. The binding activity of recombinant huamn CD42b and recombinant human ITGaM

Cluster Of Differentiation 42b (CD42b) also known as CD42b GP Ib is a platelet activation marker involved in the process of coagulation as an aggregating factor. It is composed of a heterodimer, an alpha chain and a beta chain, that is linked by disulfide bonds. The binding of the CD42b-IX-V complex to VWF facilitates initial platelet adhesion to vascular subendothelium after vascular injury and also initiates signaling events within the platelet that lead to enhanced platelet activation, thrombosis and hemostasis. Besides, ITGaM has been identified as an interactor of CD42b, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human CD42b and recombinant human ITGaM. Briefly, CD42b was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to ITGaM-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-CD42b pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human CD42b and recombinant human ITGaM was shown in Figure 1, the EC50 for this effect is1.16 ug/mL.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.